AMENDMENTS TO THE CLAIMS

1. (Currently Amended) Method for preventing signal coupling between two or more chip-based mounted piezoelectric resonator sensors ~~(G';G")~~ used in an electrically conductive flow-through liquid ~~in a~~ sensor system wherein the sensors are connected in series or parallel and each sensor ~~(G';G")~~ has a flowcell body ~~(C';C")~~ provided with its own resonator ~~(3';3")~~ connected to its own oscillator circuit ~~(29';29")~~ and its own power supply ~~(35';35")~~, ~~characterized by the steps of~~comprising:

providing each sensor ~~(G';G")~~ with its own, individual conducting shield ~~(44';44")~~ which substantially surrounds said ~~oscillator circuit (29';29")~~ flowcell body, ~~and by connecting~~ said conducting shield ~~(44';44")~~ being connected to one pole of the power supply ~~(35';35")~~; and

making an inner wall of a flow tube connecting each cavity out of a non-conducting material.

2. (Canceled)

3. (Currently Amended) Method in accordance with claim 1 ~~or 2 characterised in that~~ ~~the step of providing each sensor (G';G") with its own, individual conducting shield (44';44") which substantially surrounds said sensor (G';G") comprises the steps of making a~~ wherein said flowcell body ~~(C';C")~~ is made ~~out~~ of a non-conducting material ~~and coating substantially all of the outer surfaces of said flowcell with a conducting material~~.

4. (Canceled)

5. (Currently Amended) Piezoelectric resonator sensor comprising:

a body ~~(C';C")~~ comprising a resonator ~~(3';3")~~ connected to an oscillator circuit ~~(29';29")~~; and

a power supply ~~(35';35") characterised in that said oscillator circuit (29';"29)~~, wherein said body is substantially surrounded by a conducting shield ~~(44';44")~~ which shield ~~(44';44")~~ is connectable to one pole of the power supply ~~(35'; 35")~~, and wherein an inner wall of a cavity, an inlet channel and an outlet channel are insulated by said shield.

6. (Canceled)

7. (Canceled)

8. (New) Sensor in accordance with claim 5, wherein said body is made of a non-conducting material.